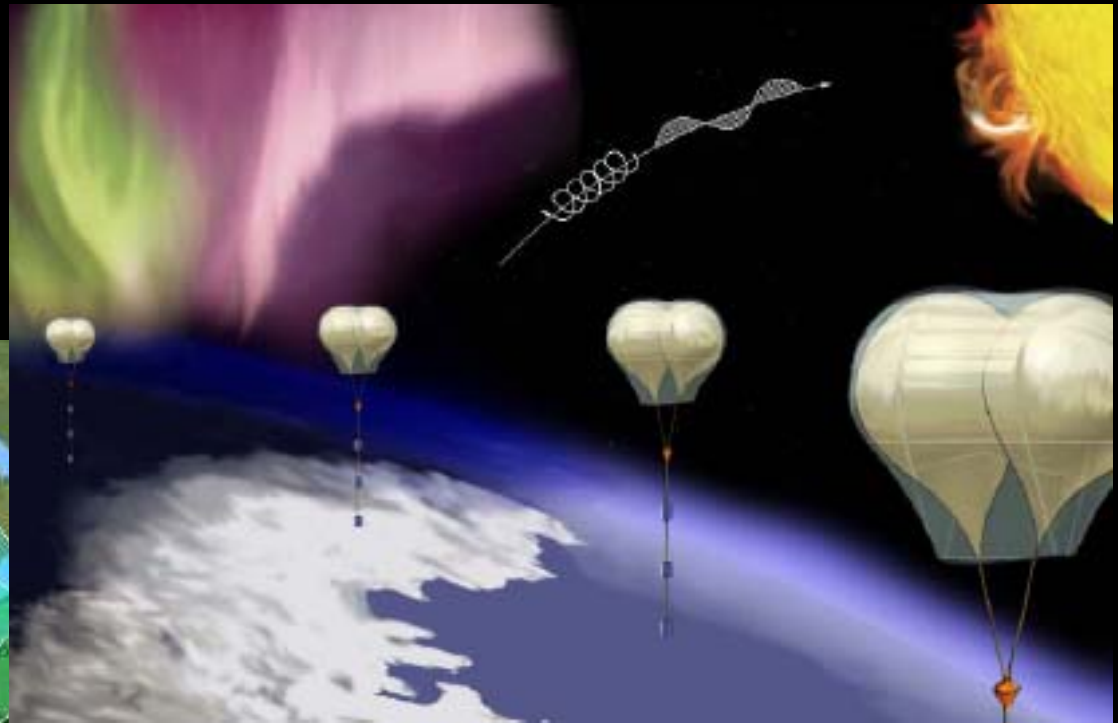


IN Grand Challenge

Space Defense Electronics

Definition Workshop

Today! – 2:00-4:30 in This Room





Raytheon



Indiana Grand Challenge **in** **Space Defense Electronics**

Defense Asset Study Focus Group Conference
February 5, 2008

Tim Morris - Raytheon
Don Takehara -Taylor University

What is a Grand Challenge?

A complex, large-scale scientific and engineering problem with broad scientific, environmental or economic impacts whose solution can be advanced by applying high-performance scientific technology and resources.
(The Pacific Northwest National Laboratory)

Attributes

- **Produce major breakthroughs in science and engineering**
- **Solve a problem of monumental impact to society**
- **Attract a multitude of organizations, people in collaboration**
- **Result in a major milestone in history**
- **Put Indiana “on the map” with international attention**
- **Provide leadership to the world**
- **Examples: Human genome project, Manhattan project**

Origin of IN Grand Challenge Space Defense Electronics

Defense Electronics Focus Area

- Command & Control Communications
- Voice/data/video networks
- Sensor networks
- Radar
- Display Systems
- High Reliability Electronics
- Power Amplifiers
- Electronic Warfare



INDIANA OFFICE OF
ENERGY AND DEFENSE DEVELOPMENT



INDIANA DEFENSE ASSET STUDY
AND
BRAC-AFFECTED COMMUNITIES ANALYSIS

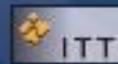
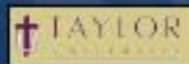
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Origin of IN Grand Challenge Space Defense Electronics



2ND ATAIN/IIN CONFERENCE
ON AEROSPACE AND SPACE SCIENCE
COLLABORATING TO LAUNCH INDIANA INTO NATIONAL PROMINENCE



September 11, 2007



Space Defense Electronics Breakout Session

- Presentations
- Discussion*

Vision: Formation of teams from organizations across Indiana

IN Grand Challenge **Space Defense Electronics** **Team**

Initial Team

Tim Collins – Purdue
Ron Cox – Next Wave
Ed Delp – Purdue
Joe Dutkowski – Crane
Brose McVey - Nexpointe
Tim Morris – Raytheon
Larry Williams – ITT
Don Takehara - Taylor

Dec. 10 – Teleconference
Feb. 5 (Today!) - Workshop

IN Grand Challenge

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Definition Workshop

Today! – 2:00-4:30 in This Room
Come and Join Us!

Objectives:

- 1) Define & propose an IN Grand Challenge**
- 2) Produce the “skeleton” for a White Paper**

Near Term Goal: White Paper to the OED

IN Grand Challenge

Space Defense Electronics

Definition Workshop

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- Working meeting
- Divide into small groups to brainstorm

- What are potential topics for an IN Grand Challenge in Space/Defense Electronics?
 - ❖ Type of problems: operational problem vs technology problem
 - ❖ Type of capabilities to be demonstrated
- What places in IN are there for validation/testing of a Grand Challenge?
- What ground space is available in IN to support a Grand Challenge?
- What are the potential funding opportunities/sources?

Near Term Goal: White Paper to the OED

IN Grand Challenge
Space Defense Electronics
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Near Term Goal: White Paper to the OED

